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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/993,678	11/27/2001	Satoshi Hanada	Q67285	7280
7.	590 05/10/2004		EXAMINER	
SUGHRUE MION, PLLC 2100 Pennsylvania Avenue, NW			CHANG, VICTOR S	
	ania Avenue, NW OC 20037-3213		ART UNIT PAPER NUMBER	
,				

DATE MAILED: 05/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/993,678	HANADA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Victor S Chang	1771				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply be ting the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely the mailing date of this of 0 (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on <u>02 A</u> This action is FINAL . 2b) ☐ This Since this application is in condition for allowa closed in accordance with the practice under B	s action is non-final. nce except for formal matters, pro		e merits is			
Disposition of Claims						
4) Claim(s) 3 and 5-7 is/are pending in the application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) according and solution and request that any objection to the Replacement drawing sheet(s) including the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration is objected to by the Examine 11 in the oath or declaration in the oath or declara	wn from consideration. or election requirement. er. epted or b) objected to by the lidrawing(s) be held in abeyance. Seetion is required if the drawing(s) is objected.	e 37 CFR 1.85(a). jected to. See 37 CF	` '			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	•					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	D-152)			

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_ DETAILED ACTION

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1. The Examiner has carefully considered Applicants' amendments and remarks filed on 4/2/2004. Applicants' amendments to claim 3 and newly added claims 5-7 have all been entered.

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Rejections not maintained are withdrawn.

Response to Amendment

4. Claims 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al. (US 5116881) in view of WO 94/07930, newly cited as evidence of the state of the art, substantially for the reasons set forth in section 6 of Paper No. 120203, together with the following additional observations.

It is noted that newly added claims 5-7 are de facto duplicates of cancelled claims 1, 2 and 4, respectively.

With respect to Applicants' argument that "Park does not teach laminating a foam sheet with another object, i.e., a substrate." (Remarks, page 6, first full paragraph), the Examiner notes that the subject matter "laminating a foam sheet with another object" is neither recited in independent claim 3, nor in newly added independent claim 5 and its dependent claims 6 and 7. Applicants' argument is irrelevant.

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For newly added claim 6, the Examiner repeats (see Paper No. 6, page 3) that—although Park lacks an express teaching about the suitable blend ratio of the carboxylic acid modified polyolefin containing adhesive layer, it is believed that the art of tie layer is old and well known, and blending suitable amount of carboxylic acid modified polyolefin with unmodified polyolefin is conventional. Note also as evidence of the state of the art Chou et al. (US 4990562) which teaches that suitable adhesive resins for a multilayer sheet structure include polyolefins modified (or grafted) with maleic anhydride, etc., and blends of these polymers with polyolefins (column 6, line 55 to column 7, line 19). As such, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to modify Park's tie layer with a suitable blend of polyolefin and carboxylic acid modified polyolefin, motivated by the desire to obtain a strong adhesion to between laminated layers, as taught by Park.

For newly added claims 5 and 7, the Examiner repeats (see Paper No. 6, page 3) that although Park is silent about the infrared property of the laminate, it is noted that the prior art combination <u>anticipates the composition of the non-foamed layer</u> of claims 5 and 7, and its <u>inherent</u> infrared property in claim 5 is also believed to be anticipated by the prior art combination. It should be noted that Park discloses an additional element (functional layer) not claimed in the instant invention is irrelevant.

With respect to Applicants' response arguing that "the prior art does not teach or suggest foamed polyolefin sheet comprising a non-foamed surface layer comprising the claimed spectrally-characterized thermoplastic resin composition." (Remarks, page 6,

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bottom paragraph), the Examiner repeats that Park's invention teaches the invention as claimed, as set forth above, Applicants' argument to the contrary notwithstanding.

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor S Chang whose telephone number is 571-272-1474. The examiner can normally be reached on 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel H Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DANIEL ZIRKEH PRIMARY EXAMINER GROUP 1300

Daniel Zukin